

**ABSTRACT OF THE DISCLOSURE**

A core logic chipset for a computer system is provided which can be configured as a bridge between either an accelerated graphics port (AGP) bus or an additional peripheral component interconnect (PCI) bus. A common bus having provisions for the PCI and AGP interface signals is connected to the core logic chipset and either an AGP or PCI device(s). The common bus, which is part of a fault-tolerant interconnect system, includes a first bus portion and a lower bus portion. When an error (e.g., a parity error) is detected on the first bus portion, the transaction is transferred over the second bus portion. When an error is detected on the second bus portion, the transaction is transferred over the first bus portion. If errors are detected on both portions, the transaction may be terminated.